

From: [Davidson, Chris](#)
To: [Weaver, Thomas](#)
Cc: [Kenneth Graham](#)
Subject: Fwd: NRC Paleoliquefaction Study
Date: Friday, March 15, 2013 12:10:14 PM

Mr. Weaver,

The Service concurs with your determination related to the NRC Paleoliquefaction Study.

----- Forwarded message -----

From: **Graham, Kenneth** <kenneth_graham@fws.gov>
Date: Fri, Mar 15, 2013 at 9:57 AM
Subject: Fwd: NRC Paleoliquefaction Study
To: Jim Boggs <jim_boggs@fws.gov>, Chris Davidson <chris_davidson@fws.gov>
Cc: Thomas.Weaver@nrc.gov

Jim and Chris,

This morning I talked to Thomas Weaver of the NRC. They are doing a paleoliquification study in AR. They want to excavate two areas for potential archaeological significance. Since both are located in farm fields I could not think of any concerns that we would have for listed species or CHs.

Please look at Thomas Weaver's email and information. If you agree that the work would not likely be of concern for listed species and CHs please respond to Mr. Weaver to confirm this. If you do have potential concerns, please respond to explain potential issues. Mr. Weaver's contact information can be found below in case you have questions or need further information..

Thanks,
Ken Graham

----- Forwarded message -----

From: **Weaver, Thomas** <Thomas.Weaver@nrc.gov>
Date: Fri, Mar 15, 2013 at 10:09 AM
Subject: NRC Paleoliquefaction Study
To: "Kenneth_Graham@fws.gov" <Kenneth_Graham@fws.gov>

Ken,

As a follow up to our phone conversation this morning, I am providing you with some information regarding field work activity we have planned next week preparatory for future paleoliquefaction field studies. We have identified two sites in Arkansas where we would like to perform a detailed geologic study on paleoliquefaction features in the Fall of 2013. The detailed study will consist of excavating a 1.5 meter deep trench at each site having approximate plan dimensions of 1 meter by 30 meters. Our planned

work for next week is preparatory to identify where the trench should be located and to obtain any pertinent archeological data to assess the site for historical significance. These two sites are located in farmers' fields. The latitude and longitude of each site are: -35.98713N, 89.939499W for site 1 and -35.95425N, 90.47242W for site 2 (satellite images for each site are attached). The archeological work will consist of shovel testing at approximately 10 meter intervals along the proposed trench location. The shovel test consists of digging a hole approximately 0.5 m in diameter and 0.5 m deep using hand tools. Due to the limited scope and minor disturbance of this preparatory field work, it is my opinion that fish and wildlife species will not be impacted by this action and this action will have no effect on Federally threatened or endangered species. Any feedback you have will be appreciated.

Regards,

Thomas

Thomas Weaver, PhD, PE

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Chris Davidson

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